

## Labiosa, Rochelle

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**From:** Krembs, Christopher (ECY) <ckre461@ECY.WA.GOV>  
**Sent:** Tuesday, February 02, 2016 2:11 PM  
**To:** Labiosa, Rochelle  
**Subject:** RE: Presentation at R10 Harmful Algal Blooms Workshop, March 29th and 30th?

Thank you for giving me the opportunity to present

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**From:** Labiosa, Rochelle [mailto:labiosa.rochelle@epa.gov]  
**Sent:** Tuesday, February 02, 2016 12:13 PM  
**To:** Krembs, Christopher (ECY)  
**Subject:** RE: Presentation at R10 Harmful Algal Blooms Workshop, March 29th and 30th?

Thanks so much

Rochelle Labiosa, Ph.D.  
Office of Water and Watersheds  
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1200 Sixth Avenue, Suite 900, MC: OWW-191  
Seattle, WA 98101-3140  
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**From:** Krembs, Christopher (ECY) [mailto:ckre461@ECY.WA.GOV]  
**Sent:** Tuesday, February 02, 2016 12:11 PM  
**To:** Labiosa, Rochelle <labiosa.rochelle@epa.gov>  
**Subject:** RE: Presentation at R10 Harmful Algal Blooms Workshop, March 29th and 30th?

Hi Rochelle:

I am fine with the title:

### Long term ecological trends and role of eutrophication in Puget Sound

**Christopher Krembs** pursued his academic career as a biological oceanographer at several universities in Germany and the US publishing in the field of marine microbial ecology and sea ice research. He received his PhD in 1999 from the Christian-Albrechts University in Kiel. From 2002-2008 he held a position at the Applied Physics Laboratory, UW where he pioneered and published on microbial processes and interactions of marine biofilms and habitat structure in sea ice leading to featured articles in the Proceeding of the National Academy of Science and Marine Environmental Progress Series. Since 2008, he has an appointment as lead Oceanographer in the Marine Monitoring Unit and reshaped and invigorated the marine waters marine monitoring program. In 2011 he received an agency award in recognition of his commitment to creative solutions and was instrumental for the agency ECOS award (Environmental Council of the State) for Eyes Over Puget Sound and Ferries for Science.

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**From:** Labiosa, Rochelle [mailto:labiosa.rochelle@epa.gov]  
**Sent:** Tuesday, February 02, 2016 9:27 AM

**To:** Krembs, Christopher (ECY) <[ckre461@ECY.WA.GOV](mailto:ckre461@ECY.WA.GOV)>

**Subject:** RE: Presentation at R10 Harmful Algal Blooms Workshop, March 29th and 30th?

Hi Christopher,

Thanks again for presenting. Just checking in to see if you provided a title and bio yet? If you have sent those to my colleague and co-organizer, Lesley D'Anglada, please disregard this message, but I wanted to circle back around.

Thanks so much, Christopher, and see you soon,  
Rochelle

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**From:** Krembs, Christopher (ECY) [<mailto:ckre461@ECY.WA.GOV>]

**Sent:** Thursday, January 21, 2016 9:31 AM

**To:** Labiosa, Rochelle <[labiosa.rochelle@epa.gov](mailto:labiosa.rochelle@epa.gov)>

**Subject:** RE: Presentation at R10 Harmful Algal Blooms Workshop, March 29th and 30th?

Hi Rochelle, I am happy to present.

By when do you need title and presentation?

Christopher

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**From:** Labiosa, Rochelle [<mailto:labiosa.rochelle@epa.gov>]

**Sent:** Wednesday, January 20, 2016 6:05 PM

**To:** Krembs, Christopher (ECY) <[ckre461@ECY.WA.GOV](mailto:ckre461@ECY.WA.GOV)>

**Subject:** Presentation at R10 Harmful Algal Blooms Workshop, March 29th and 30th?

Hi Christopher – my many apologies – I intended to write to you about a month ago to see if you could present on Puget Sound water quality trends and community composition shifts as part of our HABS workshop, and I can't find the email in my outbox. I believe that you have RSVP'd for the workshop, and we would love to have you give a 20-minute presentation on PS trends as described above as well as take part in the workshop, if you are still available.

Below is some logistics info –

Each day, March 29<sup>th</sup> and 30<sup>th</sup>, will start at 8AM and end at 5:30 PM. On the first night, 3/29, we will have a social hour at a downtown Seattle location after the workshop, location TBD.

**If you are available, please send a short, one paragraph Bio and your preferred title.**

If you have colleagues who would like to attend the workshop, here is the registration link:

<http://www.eventbrite.com/e/epa-region-10-habs-workshop-tickets-19939474505>

Thanks so much,  
Rochelle

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**From:** Krembs, Christopher (ECY) [<mailto:ckre461@ECY.WA.GOV>]

**Sent:** Friday, October 23, 2015 2:01 PM

**To:** Labiosa, Rochelle <[labiosa.rochelle@epa.gov](mailto:labiosa.rochelle@epa.gov)>

**Subject:** Re: National HABS Roadshow dates for Region 10 -response needed by 10/31; upcoming webinars and new field and laboratory guide to cyanobacteria

Rochelle I can do all three dates.

Christopher

Sent from my iPhone

On Oct 23, 2015, at 7:04 PM, Labiosa, Rochelle <[labiosa.rochelle@epa.gov](mailto:labiosa.rochelle@epa.gov)> wrote:

Hi All,

At this time, I am scoping a possible three-day in-person "HABS Roadshow" workshop on harmful algal and cyanobacterial blooms (HABS) together with EPA's national HABS program. The three-day workshop would cover occurrence, human health and ecological effects, planning/prediction/prevention tools, and mitigation, with national and regional experts and examples. There also would be a half day to cover other nutrient topics, including the results of regional NSTEMPS projects.

The workshop would be held at the Seattle office of EPA Region 10.

Although we are in the scoping phase, I would like to check and see if there are major conflicts with the following 3-day time periods in 2016:

**March 22-24**

**March 29-31**

**April 5-7**

**Please let me know by 10/30 if you have conflicts with the above dates. You may want to check conflicts with drinking water, health agency, and other staff and researchers, since this workshop will cover cross-program topics.**

You are receiving this message if you attended the EPA Nutrients Roadshow in 2014 or the Roundtable in 2015.

Two webinar announcements and link to a new field guide are below my signature line.

Please let me know if you have any questions.

Have a great weekend,  
Rochelle

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## Announcing EPA's Sixth Water Quality Modeling Webinar: "Nutrient Modeling: Part 2"

EPA's Water Quality Modeling Workgroup announces it's sixth webinar on water quality modeling. All webinars will be focused on helping water quality professionals better understand modeling and how models can be used to solve the problems facing water quality regulators.

This sixth webinar, titled “Nutrient Modeling: Part 2”, is scheduled for **Tuesday October 27, 2015, at 1pm Eastern**. This webinar will continue with the discussion of modeling nutrients in the aquatic environment. The webinar will focus on case studies and potential nutrient endpoints that can be used in rivers, lakes/reservoirs and estuaries. The potential models and modeling approaches will be presented for each waterbody type.

Registration is required and is now available at:

<https://attendee.gotowebinar.com/register/4663964867011758850>

Information on the first five webinars is available here:

<http://water.epa.gov/lawsregs/lawsguidance/cwa/tmdl/techsupp.cfm#workgroup>

Please save the date of Thursday, November 5<sup>th</sup> at 11:30am (EST) for an *Inland HABS Discussion Group Webinar on Record-Breaking HABS in the US in 2015*.

The webinar will focus on presentations on two record-breaking blooms in the US in 2014: the US West Coast HAB and the Ohio River cyanobacterial bloom. We will also hear from USGS on the data collection for the Cyanobacteria Assessment Network (CyAN) project led by USGS, EPA, NOAA and NASA, and a presentation from the Colorado Department of Public Health and the Colorado Parks and Wildlife on Colorado's Draft response plans to HABs for Recreation and Drinking Water.

See this webpage for more information and contacts: <http://www2.epa.gov/nutrient-policy-data/inland-hab-discussion-group>

## Field and laboratory guide to freshwater cyanobacteria harmful algal blooms for Native American and Alaska Native Communities

## Abstract

Cyanobacteria can produce toxins and form harmful algal blooms. The Native American and Alaska Native communities that are dependent on subsistence fishing have an increased risk of exposure to these cyanotoxins. It is important to recognize the presence of an algal bloom in a waterbody and to distinguish a potentially toxic harmful algal bloom from a non-toxic bloom. This guide provides field images that show cyanobacteria blooms, some of which can be toxin producers, as well as other non-toxic algae blooms and floating plants that might be confused with algae. After recognition of a potential

toxin-producing cyanobacterial bloom in the field, the type(s) of cyanobacteria present needs to be identified. Species identification, which requires microscopic examination, may help distinguish a toxin-producer from a non-toxin producer. This guide also provides microscopic images of the common cyanobacteria that are known to produce toxins, as well as images of algae that form blooms but do not produce toxins.

#### Citation

Rosen, B.H., and St. Amand, Ann, Field and laboratory guide to freshwater cyanobacteria harmful algal blooms for Native American and Alaska Native Communities: U.S. Geological Survey Open-File Report 2015–1164, 44 p., <http://dx.doi.org/10.3133/ofr20151164>.